

Fig. 1.

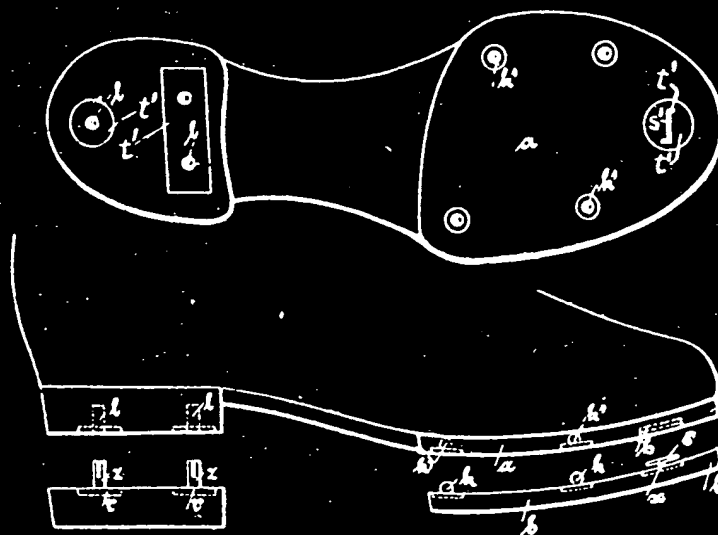


Fig. 3.

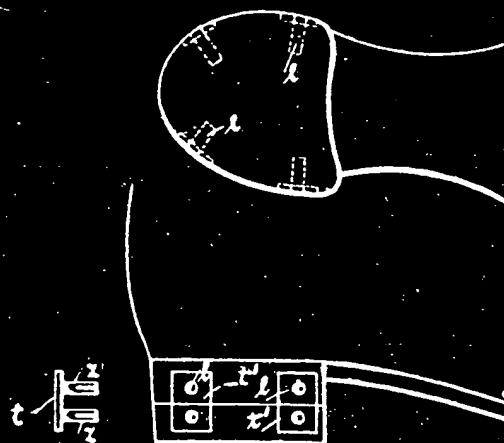
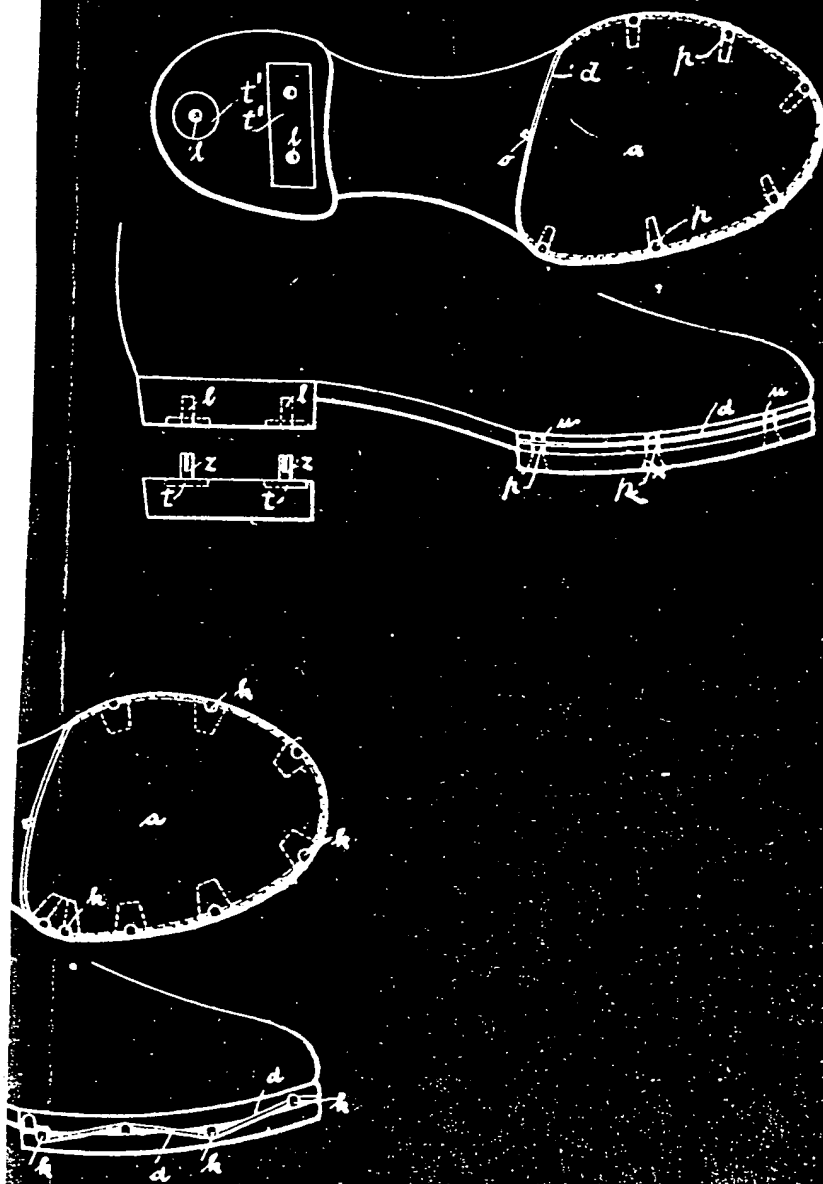


Fig. 2



N^o 19,561



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COMPLETE SPECIFICATION.

Improvements in Boots and the like.

I ANTON MUNDEN of 12 Markt Str. Hamburg, in the Empire of Germany, Merchant, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement :—

5 This invention for improvements in boots and the like has for its object to fasten the soles and heel taps of boots so that they can be readily changed even by inexperienced persons.

In the accompanying drawings three modes of fixing the sole of a boot to the insole and two modes of fixing the heel taps to the heel are shown.

10 In Figs. 1, the sole *b* is provided with a T piece *s* and with hollow spring metal knobs *k*. The insole *a* is provided with a slot *s'* having a shape corresponding to the T piece *s* and formed of two circular plates *t'* fixed in the insole and with metallic sockets *k'* corresponding to the knobs *k*. The sole *b* is fixed by forcing the T piece *s* secured to the sole *b* through the slot *s'* fixed to the insole *a* and by
15 turning the sole through an angle of 90 degrees upon the axis *x* of the T piece *s* and forcing the knobs *k* into the sockets *k'*.

In Figs. 2 conical headed hooked plugs *p* fixed in the sole near its edges are forced into corresponding openings formed in the insole and are held by means of a
20 metallic wire *d* sunk in the edge of the insole and passing under the hooks of the plugs *p*. The ends of the wire *d* are secured together at *o* by twisting them together with pliers and so drawing the wire taut.

In Figs. 3 metal plates provided with hooks *k* are fixed to the adjacent surfaces of the sole and insole alternately and so that the hooks *k* project beyond the edge of the sole. The sole is fixed by means of a wire or lace passing round the edges
25 of the sole and alternately over a hook *k* of the insole and under a hook *k* of the sole. The ends of the wire may be secured together as described with reference to Figs. 2.

In Figs. 1 and 2, the heel taps are provided with split pins *z* fixed to them by means of plates *t*. The heels are provided with sockets *l* corresponding to the
30 pins *z* and let into the heels and fixed by means of plates *t'*. The pins *z* on the heel taps are forced into the sockets *l* in the heel and are held there by friction. In Figs. 3 two split pins *z* fixed on a plate *t* are forced into two sockets fixed in the edges of the heel tap and heel. Several of these pins are employed for each heel.

35 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is :—

1. Fixing the sole *b* of a boot to the insole *a* by means of a T piece and hollow spring knobs secured to the sole and corresponding sockets fixed to the insole, the T piece being first placed in its socket and then turned at right angles and the
40 spring knobs forced into their sockets substantially as described and for the purpose set forth.

2. Fixing the sole *b* of a boot to the insole *a* by means of conical headed hooked plugs fixed to the sole, of corresponding sockets fixed to the insole and of a wire sunk in the edge of the sole and passed under the hooks of the plugs and fixed together as described and for the purpose set forth.

3. Fixing the sole *b* of a boot to the insole *a* by means of hooks fixed alternately to the sole and insole so as to project from their edges, and of a wire or lace passing round the edges of the sole and insole and secured together as described and for the purpose set forth.

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Menden's Improvements in Boots and the like.

alternately over and under the hooks and having its ends secured substantially as described and for the purpose set forth.

4. Fixing the heel tap of a boot to the heel by means of split pins fixed to the heel tap and of corresponding sockets fixed to the heel, the pins being forced into the sockets, substantially as described and for the purpose set forth. 5

5. Fixing the heel tap of a boot to the heel by means of pins fixed together and forced into corresponding sockets fixed in the heel and heel tap substantially as described and for the purpose set forth.

Dated this 11th day of November 1891.

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